

## **EMS Course Requirements**

The following outlines should be followed when creating your course syllabi. The minimum course hours must be met, but they can be exceeded depending on the needs of your class. These times include skills labs and lecture, but competency based sections have no time recommendations. These should be scheduled based upon the competency of individual students, but you must account for them (estimates where needed) in your course syllabus for approval.

Below are the course requirements for:

- Emergency Medical Responder
- Emergency Medical Technician
- Advanced Emergency Medical Technician
- Paramedic
- Basic Advanced to Advanced Emergency Medical Technician Bridge Course
- Emergency Medical Technician Intermediate to Paramedic Bridge Course

### ***EMR Course***

The Emergency Medical Responder Course must have a minimum course time of 49.5 hours. 44.5 hours are core National Education Standards (NES) curricula and the remaining 5 hours are Indiana required added curriculum. **(See EMR Hours PDF)**

The following skills must be taught and verified in the EMR course:

- Oral airway
- BVM
- Sellick's Maneuver
- Head-tilt chin lift
- Jaw thrust
- Modified chin lift
- Obstruction—manual
- Oxygen therapy
- Nasal cannula
- Non-rebreather face mask
- Upper airway suctioning
- Manual BP
- Unit dose auto-injectors for self or peer care (MARK I)
- Manual cervical stabilization
- Manual extremity stabilization
- Eye irrigation
- Direct pressure
- Hemorrhage control
- Emergency moves for endangered patients

### **Cardiac Care**

- CPR
- AED
- Assisted normal delivery
- *Additional module on proper use of Cervical Collars*
- *Additional module on proper use of Long Spine Board*
- *Additional module on proper use of Pulse Ox/Carbon Monoxide monitoring*
- *Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum*
  - These modules exceed the National Education Standards set by NHTSA

EMR students must complete 20 hours of continuing education every two years in order to remain certified.

## ***EMT Course***

The Emergency Medical Technician Course must have a minimum course time of 159 hours. 138 hours are core National Education Standards (NES) curricula, 16 hours are Indiana mandated field hours (hospital and ambulance), and the remaining 5 hours are Indiana required additional curriculum. 8 of the 159 hours can be substituted for NIMS IS 100, 200, 700, and 800 (see EMT Hours PDF). If you have students who are current EMRs, they are not required to repeat the additional Indiana added curriculum unless mandated by your training institution. **(See EMT Hours PDF)**

The following skills must be taught and verified in the EMT course:

### ***All skills of EMR (above) plus:***

- Humidifiers
- Partial rebreathers
- Venturi mask
- Manually Triggered Ventilator (MTV)
- Automatic Transport Ventilator (ATV)
- Oral and Nasal airways
- Pulse oximetry
- Manual and auto BP

### **Assisted Medications**

- Assisting a patient in administering his/her own prescribed medications, including auto-injection

### **Technician of Medicine Administration**

- -Buccal
- -Oral

### **Administered Meds**

- PHYSICIAN-approved over-the-counter medications (oral glucose, ASA for chest pain of suspected ischemic origin)

### **Trauma Care**

- Spinal immobilization
- Seated spinal immobilization
- Long board
- Extremity splinting
- Traction splinting
- Mechanical pt restraint
- Tourniquet
- MAST/PASG
- Cervical collar
- Rapid extrication

### **Cardiac Care**

- Mechanical CPR
- Assisted complicated delivery
- ***Additional module on Esophageal, Tracheal, Multi-Lumen, and Supraglottic Airway***
- ***Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum***
  - These modules exceed the National Education Standards set by NHTSA
- Students should observe emergency department operations for a period of time sufficient to gain an appreciation for the continuum of care. **Students must perform 10 patient assessments.** These can be performed in an ED, ambulance, clinic, nursing home, doctor's office, or on standardized patients if clinical settings are not available.
- **8 hours ambulance ride time**
- **8 hours hospital time**

EMT Students must complete 40 hours of didactic continuing education plus skills verification every two years in order to remain certified.

## ***AEMT Course***

The Advanced Emergency Medical Technician Course must have a minimum course time of 160 hours (See **AEMT Hours PDF**). Students must satisfy the hospital and clinical skills requirement, but hours are not assigned as times will be based upon individual student competency.

The following skills must be taught and verified in the AEMT course:

### ***All skills of EMT (above) plus:***

- Esophageal-Tracheal Multi-Lumen Airways
- Blood glucose monitor
- Peripheral IV insertion

- IV fluid infusion
- IO

### **Technician of Medicine Administration**

- Aerosolized
- Subcutaneous
- Intramuscular
- Nebulized

- Sublingual
- Intranasal
- IV push of D50 and narcotic antagonist only

### **Administered Meds**

- SL Nitroglycerine for chest pain of suspected ischemic origin
- SQ or IM epinephrine for anaphylaxis
- glucagon and IV D50 for hypoglycemia
- Inhaled beta agonist for dyspnea and wheezing
- Narcotic antagonist
- Nitrous oxide for pain relief
- ***Additional module on Adult IO***
- ***Additional Module on EKG application and interpretation of Sinus Rhythms, PEA, V-Fib, V-Tach, and Asystole***
- ***Manual Defibrillation***
- ***12-lead Application and Transmission ONLY***
- ***Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum***
  - These modules exceed the National Education Standards set by NHTSA

Students must also complete the following hospital and clinical experience:

- Properly **administer medications to at least 15 live patients**
- Successfully **perform all steps and access venous circulation at least 25 times on live patients** of various age groups
- **Ventilate at least 20 live patients** of various age groups
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **chest pain**
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **respiratory distress**
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **altered mental status**
- Demonstrate the ability to perform an adequate assessment on **pediatric, adult, and geriatric** patients

AEMT Students must complete 54 hours of didactic continuing education plus skills verification every two years in order to remain certified.

## ***Paramedic Course***

The Paramedic must have a minimum course time of 452 hours. (See **Paramedic Hours PDF**)  
The following skills must be taught and verified in the Paramedic course:

### ***All skills of AEMT (above) plus:***

- BiPAP/CPAP
- Needle chest decompression
- Chest tube monitoring
- Percutaneous cricothyrotomy<sup>2</sup>
- ETCO<sub>2</sub>/Capnography
- NG/OG tube
- Nasal and oral Endotracheal intubation
- Airway obstruction removal by direct laryngoscopy
- PEEP
- EKG interpretation
- Interpretive 12 Lead
- Blood chemistry analysis

### **Technician of Medicine Administration**

- Endotracheal
- IV (push and infusion)
- NG
- Rectal
- IO
- Topical
- Accessing implanted central IV port

### **Administered Meds**

- Physician-approved medications
- Maintenance of blood administration
- Thrombolytics initiation

### **Trauma Care**

- Morgan lens

### **Cardiac Care**

- Cardioversion
- Carotid massage
- Manual defibrillation
- TC pacing
- ***Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum***
  - These modules would exceed the National Education Standards set by NHTSA

Students must also complete the following hospital and clinical experience:

- No fewer than fifty (50) attempts at airway management across all age levels, with a 90% success rate utilizing endotracheal intubation in their last ten (10) attempts.
- Must be 100% successful in the management of their last 20 attempts at airway management.
- Clinical experience **must** include the operating room, recovery room, ICU, coronary care department, labor and delivery room, pediatrics, and ER.
- All students must have adequate exposure, as determined by the program medical director and advisory committee, to pediatric, obstetric, psychiatric, and geriatric patients.

- All students must complete a **Field Internship** and successfully manage, assess, and treat patients. **Minimum Team Leads** must be established by the program medical director and advisory committee and be completed by every student.
- Total course hours including lecture, skills, and internships should range between 1000 and 1300 Total hours.

Paramedic Students must complete 72 hours of didactic continuing education plus skills verification every two years in order to remain certified.

### ***Basic Advanced to Advanced EMT Bridge Course***

The AEMT Bridge course must have a minimum course time of 100 hours. (See **AEMT Bridge PDF**).

The following skills must be taught and verified in the AEMT course:

#### ***All skills of EMT (above) plus:***

- Esophageal-Tracheal Multi-Lumen Airways
- Blood glucose monitor
- Peripheral IV insertion
- IV fluid infusion
- IO

#### **Technician of Medicine Administration**

- Aerosolized
- Subcutaneous
- Intramuscular
- Nebulized
- Sublingual
- Intranasal
- IV push of D50 and narcotic antagonist only

#### **Administered Meds**

- SL Nitroglycerine for chest pain of suspected ischemic origin
- SQ or IM epinephrine for anaphylaxis
- glucagon and IV D50 for hypoglycemia
- Inhaled beta agonist for dyspnea and wheezing
- Narcotic antagonist
- Nitrous oxide for pain relief
- ***Additional module on Adult IO***
- ***Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum***
  - These modules exceed the National Education Standards set by NHTSA
- Training program must be sponsored / supervised by an ALS Indiana Certified Training Institution; however, this institution **does not need to be CoAEMSP accredited**.
- Training must be conducted by a person certified at that level or higher.
- Must be supervised by an Indiana Certified Primary Instructor.
- Must submit training application with all required documentation to IDHS and received course approval prior to starting the transition program.
- All personnel taking the transition course must a current Basic Advanced EMT.

#### **Skills Validation**

Students must complete the following clinical and skills experience ***unless*** students can present a portfolio verifying competency in each section from their previous Basic Advanced EMT course or in the course of everyday Basic Advanced operations:

- Properly **administer medications to at least 15 live patients**
- Successfully **perform all steps and access venous circulation at least 25 times on live patients** of various age groups
- **Ventilate at least 20 live patients** of various age groups
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **chest pain**

- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **respiratory distress**
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **altered mental status**
- Demonstrate the ability to perform an adequate assessment on **pediatric, adult, and geriatric** patients

### **Field Internship**

At the conclusion of the didactic phase for the AEMT program, the candidate will complete a field internship comprised of a minimum of (10) ten ambulance patient contacts where the candidate successfully performs and manages the ALS assessment and at least (1) one ALS skill included in the AEMT scope of practice. The training Institution will then sign off on the candidate once all requirements have been met to initiate eligibility for certification testing.

### **Testing**

Currently, Bridge students will need to take the National Registry of EMTs (NREMT) AEMT exam to attain Indiana AEMT certification. Students do not need to take the NREMT AEMT skills test. Skills must be verified by the training institution as NREMT will not test Bridge students' skills.

### **Course Completion**

All courses must be started by June 30, 2014. No new courses will be allowed to begin after June 30, 2014. All students currently enrolled in a bridge course as of June 30, 2014 will be allowed to complete the course, but their certification will be lowered to the EMT level until successful completion of the course and NREMT testing.



## ***EMT-Intermediate to Paramedic Bridge Course***

The EMT-I to Paramedic Bridge course must have minimum course times of 256 hours. (See **AEMT Bridge PDF**)

The following skills must be taught and verified in the Bridge course:

### ***All skills of AEMT (above) plus:***

- BiPAP/CPAP
- Needle chest decompression
- Chest tube monitoring
- Percutaneous cricothyrotomy
- ETCO<sub>2</sub>/Capnography
- NG/OG tube
- Nasal and oral Endotracheal intubation
- Airway obstruction removal by direct laryngoscopy
- PEEP
- EKG interpretation
- Interpretive 12 Lead
- Blood chemistry analysis

### **Technician of Medicine Administration**

- Endotracheal
- IV (push and infusion)
- NG
- Rectal
- IO
- Topical
- Accessing implanted central IV port

### **Administered Meds**

- Physician-approved medications
- Maintenance of blood administration
- Thrombolytics initiation

### **Trauma Care**

- Morgan lens

### **Cardiac Care**

- Cardioversion
- Carotid massage
- Manual defibrillation
- TC pacing
- ***Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum***

These modules would exceed the National Education Standards set by NHTSA

- Training program must be sponsored / supervised by an ALS Indiana Certified Training Institution. This institution **does not need to be CoAEMSP accredited; however if they do not have a current accreditation or waiver, they must put in for a waiver of the Indiana 836 rule (that states any training institution wishing to teach a Paramedic course must be accredited) with the EMS Commission.**
- Training must be conducted by a person certified at the Paramedic level.
- Must be supervised by an Indiana Certified Primary Instructor.

- Must submit training application with all required documentation to IDHS and received course approval prior to starting the transition program.
- All personnel taking the transition course must a current EMT-Intermediate.

### **Skills Validation**

Students must complete the following clinical and skills experience ***unless*** students can present a portfolio verifying competency in each section from their previous EMT-I course or in the course of everyday EMT-I operations:

- No fewer than fifty (50) attempts at airway management across all age levels, with a 90% success rate utilizing endotracheal intubation in their last ten (10) attempts.
- Must be 100% successful in the management of their last 20 attempts at airway management.
- Clinical experience **must** include the operating room, recovery room, ICU, coronary care department, labor and delivery room, pediatrics, and ER.
- All students must have adequate exposure, as determined by the program medical director and advisory committee, to pediatric, obstetric, psychiatric, and geriatric patients.

### **Field Internship**

All students must complete a **Field Internship** and successfully manage, assess, and treat patients.

**Minimum Team Leads** must be established by the program medical director and advisory committee and be completed by every student.

### **Testing**

Currently, Bridge students will need to take the National Registry of EMTs (NREMT) Paramedic exam to attain Indiana Paramedic certification. Students do not need to take the NREMT AEMT skills test. Skills must be verified by the training institution as NREMT will not test Bridge students' skills.

### **Course Completion**

All courses must be started by June 30, 2014. No new courses will be allowed to begin after June 30, 2014. All students currently enrolled in a bridge course as of June 30, 2014 will be allowed to complete the course, but their certification will be lowered to the AEMT level until successful completion of the course and NREMT Paramedic testing.